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| NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_ | **Stats and probability** |
| Quiz2-3 Sample Size Means (2 points each) | **DATE: Tuesday, April 25, 2017** |

1. We survey 25 students and find that the average number of days they have missed on average 4.2 days this year and it deviated by 1.5 days. Create a 95% confidence interval for the average amount all students have missed.
2. We are going to do the survey again. This time we want to be within .2 days of the correct answer at 95% confidence. How many people should we survey (assume standard deviation is the same 1.5 days).
3. Advanced:

We are going to do the survey again. This time we want to be within .2 days of the correct answer at 99% confidence. How many people should we survey (assume standard deviation is the same 1.5 days).